#### PCT

# NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

#### From the INTERNATIONAL BUREAU

To:

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Date of mailing (day/month/year) 01 June 2001 (01.06.01)	
Applicant's or agent's file reference Y9914-PCT	IMPORTANT NOTIFICATION
International application No.	International filing date (day/month/year)
PC17JP99/07236	22 December 1999 (22.12.99)
Applicant	

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

YAMANOUCHI PHARMACEUTICAL CO., LTD. et al.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,AT,AU,CA,CH,CN,CZ,FI,KP,NO,NZ,PL,RO,RU,SK,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,AE,AL,AM,AZ,BA,BB,BG,BR,BY,CR,CU,DE,DK,DM,EE,ES,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,IMD,MG,MK,MN,MW,MX,PT,SD,SE,SG,SI,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW,OA

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

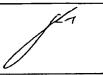
It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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# Translation



### **PCT**

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Y9914-PCT	FOR FURTHER ACTIO	SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (da	v/month/year)	Priority date (day/month/year)					
PCT/JP99/07236	22 December 1999	22.12.99)	25 December 1998 (25.12.98)					
International Patent Classification (IPC) or national classification and IPC A61K 31/675, 45/00, A61P 19/08, 35/00								
Applicant YAMA	NOUCHI PHARMACE	UTICALCO	)., LTD.					
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> <li>This REPORT consists of a total of4 sheets, including this cover sheet.</li> </ol>								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a to	otal of sheets							
3. This report contains indications rela	ating to the following items:							
I Basis of the report								
II Priority								
III Non-establishment	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
IV Lack of unity of inv	vention							
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documents	cited							
VII Certain defects in the	he international application							
VIII Certain observation	Considerations on the international application							
Date of submission of the demand	Dat	of completion	of this report					
27 April 2000 (27.04	4.00)	30 J	anuary 2001 (30.01.2001)					
Name and mailing address of the IPEA/JP	Aut	horized officer						
Facsimile No.	Tel	phone No.						

International application No.

#### · · · INTERNATIONAL PRELIMINARY EXAMINATION REPORT ·

PCT/JP99/07236

I.	Basis	s of the r	report	
1.	With	regard t	to the elements of the international application:*	
	$\boxtimes$	the inte	ternational application as originally filed	
		the des	escription:	
		pages		, as originally filed
		pages		led with the demand
		pages	, filed with the letter of	
		the clai	aims:	
	_	pages		, as originally filed
		pages	, as amended (together with any statem	ent under Article 19
		pages	_	led with the demand
		pages	, filed with the letter of	
		the dra	awings:	
		pages		, as originally filed
		pages	, fi	led with the demand
		pages	, filed with the letter of	
		the seque	ence listing part of the description:	
	ب			as originally filed
		pages	, fi	
		pages	, filed with the letter of	
2.	the in	nternation te elemen the lan the lan	to the language, all the elements marked above were available or furnished to this Authority in the small application was filed, unless otherwise indicated under this item.  Into were available or furnished to this Authority in the following language and a translation furnished for the purposes of international search (under Rule 23.1(b)).  Inguage of publication of the international application (under Rule 48.3(b)).  Inguage of the translation furnished for the purposes of international preliminary examination (under Rule 48.3(b)).	which is:
3.		minary e	to any nucleotide and/or amino acid sequence disclosed in the international application examination was carried out on the basis of the sequence listing:  ned in the international application in written form.	n, the international
	$\square$	filed to	ogether with the international application in computer readable form.	
	닏	furnish	hed subsequently to this Authority in written form.	
	$\square$	furnish	hed subsequently to this Authority in computer readable form.	
			tatement that the subsequently furnished written sequence listing does not go beyond the ational application as filed has been furnished.	disclosure in the
			tatement that the information recorded in computer readable form is identical to the written surnished.	equence listing has
4.		The am	nendments have resulted in the cancellation of:	
			the description, pages	
			the claims, Nos.	
			the drawings, sheets/fig	
5.			port has been established as if (some of) the amendments had not been made, since they have be the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	en considered to go
	in thi	icement s is report '0.17).	sheets which have been furnished to the receiving Office in response to an invitation under Articles tas "originally filed" and are not annexed to this report since they do not contain amena	e 14 are referred to Iments (Rule 70.16
		•	ent sheet containing such amendments must be referred to under item 1 and annexed to this report	

## ' . INTERNATIONAL PRELIMINARY EXAMINATION REPORT '

International application No.

PCT/JP99/07236

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<ol> <li>The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or a industrially applicable have not been examined in respect of:</li> </ol>
the entire international application.
claims Nos7
because:
the said international application, or the said claims Nos. 7 relate to the following subject matter which does not require an international preliminary examination (specify):
The subject matter of Claim 7 relates to a method for treatment of the human body by therapy which does not require an international preliminary examination by the International Preliminar Examining Authority in accordance with PCT Article 34(4)(a)(i) and Rule 67.1(iv).
<u>-</u>
the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos
A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid
sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:  the written form has not been furnished or does not comply with the standard.
the computer readable form has not been furnished or does not comply with the standard.
- DCT/IDC + 1400 /D

2.

#### . INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP99/07236

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

atement			
Novelty (N)	Claims	. 1 4 0	
	Claims	1-6,8	YI
•			NO
Inventive step (IS)	Claims	1-6,8	YF
	Claims	· · · · · · · · · · · · · · · · · · ·	NO
Industrial applicability (IA)	Claims	1 6 0	
	Claims	1-6,8	YE
			NC

2. Citations and explanations

Documents

Document 1: JP, 2-138288, A (Yamanouchi Pharmaceutical Co., Ltd.) 4 February 1999 (04.02.99)

Document 2: WO, 95/28936, A (Merck & Company, Inc.) 2 November 1995 (02.11.95)

#### Commentary

Document 1 states that 1-hydroxy-2-(imidazo [1,2-a] pyridin-3-yl) ethane-1,1,-bisphosphonic acid and salts thereof have the effect of inhibiting bone resorption and suppress hypercalcemia, which is the cause of bone resorption, but it does not describe the action of these compounds on multiple myeloma. Document 2 states that bisphosphonate, which is known as an agent that inhibits bone resorption, suppresses the resorption of bone after the transplantation of prosthetic materials, and its states that multiple myeloma is one of the causes of the disappearance of bone surrounding prosthetic materials, but it does not state that these compounds inhibit bone resorption caused by multiple myeloma or slow the progression of multiple myeloma itself. Therefore, the inventions set forth in Claims 1-6 and 8 are not disclosed in the above documents and appear to be novel. Furthermore, persons skilled in the art cannot easily conceive of selecting a constituent that acts not only to inhibit bone resorption accompanying multiple myeloma but also inhibits multiple myeloma itself.